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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/451,665	11/30/1999		SHUNPEI YAMAZAKI	07977/017002	9359
26171	7590	08/09/2004		EXAMINER	
FISH & RI	CHARDS	SON P.C.	SCHILLINGER, LAURA M		
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11TH FLOOR				ART UNIT	PAPER NUMBER
WASHINGTON, DC 20005-3500				2813	

DATE MAILED: 08/09/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

			AC			
.,	Application No.	Applicant(s)				
	09/451,665	YAMAZAKI ET AL.				
Office Action Summary	Examiner	Art Unit	-			
	Laura M Schillinger	2813				
The MAILING DATE of this communicat Period for Reply	tion appears on the cover sheet wi	th the correspondence addr	ress			
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICA - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communic - If the period for reply specified above is less than thirty (30) da - If NO period for reply is specified above, the maximum statutor - Failure to reply within the set or extended period for reply will, Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	TION. 7 CFR 1.136(a). In no event, however, may a reation. 19s, a reply within the statutory minimum of third ry period will apply and will expire SIX (6) MON by statute, cause the application to become AB	eply be timely filed by (30) days will be considered timely. THS from the mailing date of this com BANDONED (35 U.S.C. § 133).	munication.			
Status						
1) Responsive to communication(s) filed o	n <i>06 May 2004</i> .					
,	☐ This action is non-final.					
3) Since this application is in condition for	allowance except for formal matt	ers, prosecution as to the r	merits is			
closed in accordance with the practice	under <i>Ex parte Quayl</i> e, 1935 C.D	. 11, 453 O.G. 213.				
Disposition of Claims						
4) ☐ Claim(s) 1,2,4,5,7-13,15,16,18-23,25,26 4a) Of the above claim(s) See Continua 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) 1-2, 4-5, 7-11, 22-23, 25-26, 2 requirement.	tion Sheet is/are withdrawn from	consideration.	nd/or election			
Application Papers						
9) The specification is objected to by the E						
	0)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection	- · ·		9 4 494/d)			
Replacement drawing sheet(s) including the 11) The oath or declaration is objected to by	•					
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for a) All b) Some * c) None of: 1. Certified copies of the priority doc 2. Certified copies of the priority doc 3. Copies of the certified copies of the application from the International * See the attached detailed Office action for	cuments have been received. cuments have been received in A the priority documents have been Bureau (PCT Rule 17.2(a)).	application No received in this National S	itage			
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO- 		Summary (PTO-413) s)/Mail Date				
3) Information Disclosure Statement(s) (PTO-1449 or PTO Paper No(s)/Mail Date 5/6/04		nformal Patent Application (PTO-	152)			

Continuation of Disposition of Claims: Claims withdrawn from consideration are 12,13,15,16,18-21,33,34,36,37,39-42,48-51 and 56-60.

Application/Control Number: 09/451,665

Art Unit: 2813

DETAILED ACTION

Election/Restrictions

This application contains claims directed to the following patentably distinct species of the claimed invention:

Applicant's recent amendments have resulted in the following distinct species as explained below:

Species 1, claims 1-2, 4-5, 7-11 pertaining to a peak of concentration profile of a first dopant impurity located in the insulating film;

Species 2, claims 22-23, 25-26, 28-32, pertaining to a peak of a concentration profile of a first dopant impurity located above the insulating surface;

Species 3, claims 43-47, pertaining to forming a gate electrode over said portion through the insulating film and a peak of concentration profile of a first dopant impurity located in the insulating film;

Species 4, claims 52-55, pertaining to forming a gate electrode over said portion through the insulating film and a peak of concentration profile of a first dopant impurity located above the insulating film;

Species 5, claims 65-73, pertaining to a method including removing the insulating film and introducing the second dopant without using the gate as a mask wherein the peak concentration is located in the insulating film;

Species 6, claims 74-82, pertaining to a method including removing the insulating film and introducing the second dopant without using the gate as a mask wherein the peak concentration is located above the insulating film;

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, there in no generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Art Unit: 2813

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura M Schillinger whose telephone number is (571) 272-1697. The examiner can normally be reached on M-T, R-F 7:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl W Whitehead, Jr. can be reached on (571) 272-1702. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LMS

8/1/04